

ABSTRACT

A method and system for optimizing the use of antennae in a CDMA distributed antenna system. A pathway manager may identify and select an optimal antenna to transmit a wireless signal from a BTS to a receiver. The non-selected antennae may be disabled from transmitting signals to the receiver by suppressing the Walsh code and PN offsets of the BTS and receiver.

The pathway manager may use criteria such as availability, proximity, reliability, and strength of signals and antennae to select an optimal antenna. Communications between the receiver and the antennae may be used to determine such criteria. By selecting an optimal antenna, the pathway manager may conserve energy from a BTS and reduce power requirements for an antenna system.